

**ADDENDUM NO. 1 TO THE
ORANGE COUNTY SANITATION DISTRICT'S
SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT FOR THE
FINAL EFFLUENT PUMP STATION ANNEX AND COLLECTION SYSTEM ODOR &
CORROSION CONTROL PROGRAM**

STATE CLEARINGHOUSE NO.: 1997101065
LEAD AGENCY: Orange County Sanitation District
DATE: December 5, 2012

PURPOSE OF ADDENDUM:

In November 2002, the Orange County Sanitation District (OCSD) Board of Directors certified the Final Supplemental Environmental Impact Report (SEIR) for the Final Effluent Pump Station Annex and Collection System Odor & Corrosion Control Program (SCH No. 1997101065). The SEIR analyzed the environmental impacts of numerous existing continuous feed systems throughout the service area that were part of a pilot program.

This addendum, prepared in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and its implementing Guidelines (California Code of Regulations Title 14, Chapter 3, Section 15000 et seq.), addresses the addition of a continuous feed chemical dosing station as described in the SEIR. OCSD's Board of Directors will consider this addendum in conjunction with the lease agreement for the property discussed.

PROJECT DESCRIPTION:

OCSD's collection system generates odorous gases, primarily hydrogen sulfide, which can be released into the air creating a nuisance to surrounding land uses. To reduce the nuisance, OCSD conducts an odor and corrosion control program for the collection system that currently consists of applying chemicals in the upper reaches of the trunk sewer collection system. The application of the various chemicals is applied intermittently to minimize the hydrogen sulfide production as the wastewater is conveyed from the collection system to OCSD's treatment plants.

As part of the initial pilot program, OCSD conducted research to determine the effectiveness of treating upstream of the Knott Trunk System. The selected location was at the Brea RV Storage Depot on Imperial Highway just west of Puente Street in the City of Brea.

Two above-ground 12-foot storage tanks were installed to initiate dosing and evaluate the effects downstream and at the treatment plants. The tanks are on the west side of the property directly adjacent to a storage building. The tanks are over 200 feet from the street and obstructed from public view by mature landscaping and RV's parked in the area. The nearest neighbor is Independent Electric which is at an approximate distance of 75 feet.

Recommendations from the Phase 1 Research Study included on-going dosing at this location, and additional testing to better understand benefits in the lower portion of the trunk. This location in Brea allows for treatment to minimize odors in Upper and Lower Knott Trunk Sewer; which include Buena Park, La Habra, La Palma, Anaheim, Stanton, Cypress, Garden Grove, and Westminster with the potential to reduce chemical treatment on the Lower-Knott Trunk Sewer. The chemicals that may possibly be used at this site include, but are not limited to:

- Ferrous chloride
- Ferric chloride
- Ferrous sulfate
- Ferric sulfate
- Sodium hydroxide
- Nitrates
- Magnesium hydroxide

ENVIRONMENTAL IMPACT ANALYSIS:

Chemical dosing stations are described in Section 2.2 of the SEIR. Environmental impacts associated with the new station are evaluated in Chapter 3 of the SEIR. The SEIR does not include details about this specific station, as at the time of certification of the SEIR, a location had not been identified or secured. This addendum describes and evaluates the environmental impacts of the Brea RV Storage Depot chemical feed station.

Provided below is a review of the conclusions included in the SEIR and an evaluation of the environmental impacts as they pertain to this specific location.

Aesthetics:

The SEIR concluded that the storage tanks could be visible from adjacent land uses. As such, the tanks should be installed within city yards, pump stations or private industrial yards and any additional tank should be installed in a utility yard.

The Brea RV Storage Depot meets the criteria set forth in the SEIR. The tanks are installed out of public view, set over 200 feet from the street and painted in colors that complement the existing buildings. Although the tanks are visible from adjacent industrial neighbors, they do not alter or degrade the existing visual character of the site and surroundings.

The tanks do not result in new significant environmental effects or a substantial increase in the severity of significant effects related to aesthetic from those determined in the SEIR.

Air Quality:

The SEIR concluded that the operation of the continuous feed stations would not have a significant impact to air quality. There is approximately two to three truck deliveries a week, the emissions are not significant. In addition, the chemical dosing would reduce objectionable odors generated by the collection system which results in a beneficial impact.

Geology and Soils:

The SEIR concluded that the aboveground storage tanks could potentially be located in close proximity to fault splays. As such, tank specifications include a second containment to provide added protection from seismic hazards. The chemical storage tanks are designed to withstand ground shaking and avoid a potential spill during a seismic event. Therefore, the impacts remain less than significant.

Hazards and Hazardous Materials:

The SEIR notes that the Odor Control Program project would include the transport, storage and use of diesel fuel and odor reduction chemicals that could pose a spill or leak hazard. However, when handled properly the chemicals do not pose a significant health risk to the surrounding land uses. The Sanitation District has implemented an Integrated Emergency Response Program (IERP) that includes a Spill Prevention Containment and Countermeasure Plan which includes structural specifications for storage tanks, monitoring, emergency response procedures, reporting requirements, etc.

The minor changes to this specific project location which do not create a significant impact are the type of chemicals that may be stored at the site. The SEIR mentions hydrogen peroxide, ferric chloride, sodium nitrate, calcium nitrate and magnesium hydroxide. These chemicals may be used at the Brea RV Storage Depot chemical dosing station as well as ferrous chloride, ferrous sulfate, ferric sulfate and sodium hydroxide.

Ferrous chloride is a greenish yellow liquid with a slight odor of iron/acid. It is non-hazardous and not flammable. The material is stable when handled properly. It is acidic and corrodes most metals. It can be absorbed into the body by inhalation, ingestion and is can be irritating to the eyes and skin.

Ferrous sulfate is a blue-green, crystalline or granular solid. It is non-combustible but excessive heat may decompose the material. Exposure routes are through inhalation, ingestion and skin and/or eye contact.

Ferric sulfate is an odorless yellow-gray solid. It is corrosive to metals. The product is not flammable or combustible. Exposure routes are through inhalation, ingestion and skin and/or eye contact.

Sodium hydroxide is a clear or slightly gray liquid with no odor. The product is not flammable or combustible. It is incompatible with water and many metals. Exposure routes are through inhalation, ingestion and skin and/or eye contact.

These chemicals are used as part of the normal Odor Control Program progress. Various chemical dosing stations throughout our service area safely use these same chemicals. Strict measures are taken to ensure instructions listed in the Material Safety Data Sheets are followed and the chemical is used as intended.

These minor technical changes and additions would not result in new significant environmental effects or a substantial increase in the severity of significant effects related to hazards and hazardous materials from those determined in the SEIR.

Hydrology and Water Quality:

The SEIR concluded that chemicals used in the Odor Control Program could impact water quality if a spill were to occur. However, the implementation of BMP's and spill prevention, countermeasure, and control measures would reduce the impact to less than significant.

Noise:

The Odor Control Program requires the simple installation of aboveground chemical storage tanks, as such there is no construction required and therefore no construction associated noise. Approximately three truck trips a week are required for chemical deliveries. The truck trips would not raise ambient noise in the area significantly and as such would not be considered a significant noise impact.

Transportation/Traffic:

The chemical deliveries at the Brea RV Storage Depot would occur various times per week. The storage tanks are located in a private yard that has restricted access. The delivery of the chemical would not cause traffic, interfere with access or create lane closures, the existing conditions would remain the same. As such, there is less than significant impact.

FINDINGS FOR APPROVAL FOR ADDENDUM NO. 1 TO THE SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT FOR THE FINAL EFFLUENT PUMP STATION ANNEX AND COLLECTION SYSTEM ODOR & CORROSION CONTROL PROGRAM:

1. Environmental impacts of chemical dosing stations throughout the service area were evaluated in the SEIR certified by the Sanitation District Board of Directors in November 2002, for the program.
2. Minor technical changes and identification of location.
3. The project modifications would not result in new significant environmental effects or increase in the severity of significant effects from those determined by the SEIR certified by the Sanitation District Board of Directors in 2002.